

EMERGENCY RESPONSE REPORT

FOR

LOUISIANA PIGMENT COMPANY
3300 BAYOU D'INDE ROAD
WESTLAKE, CALCASIEU PARISH, LOUISIANA

Prepared for

U.S. Environmental Protection Agency Region 6

Linda Carter, Project Officer
1445 Ross Avenue
Dallas, Texas 75202

Contract No. EP-W-06-042
TDD No. TO-0001-07-06-03
WESTON W.O. No. 20406.012.001.0179.01
NRC No. 840168
CERCLIS No. N/A
FPN N/A
EPA OSC: John Martin
START-3 PTL: Craig Dodd

Submitted by

Weston Solutions, Inc.
Robert Beck, VP, P.E., Program Manager
70 NE Loop 410, Suite 600
San Antonio, Texas 78216
(210) 308-4300

13 July 2007

PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) response actions for the Louisiana Pigment, Emergency response. The site is located at 3300 Bayou D'Inde Road, Calcasieu Parish, Westlake, Louisiana. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files. On 27 June 2007, the Louisiana Pigment Company notified the National Response Center (NRC No. 840168) of a titanium tetrachloride release at their Westlake, Louisiana facility that produces titanium dioxide. The NRC notified the EPA Region 6 Response and Prevention Branch (EPA-RPB). The EPA-RPB activated the Superfund Technical Assessment and Response Team (START-3) for a Tier 3 Response. START-3 members Craig Dodd and Joel Shaffer mobilized to the scene 27 June 2007. The EPA START-3 tasks included responding to the incident; conducting air monitoring; and providing written and photographic documentation of response activities; and monitoring the status of the "shelter in place" issued by Louisiana Pigment. After being informed of air monitoring results and the response activities performed by the potentially responsible parties (PRPs), the EPA On-Scene Coordinator (OSC) John Martin, released the START-3 from the site on 27 June 2007.

This final report was prepared by Weston Solutions, Inc. under Contract No. EP-W-06-042 for EPA Region 6. The EPA OSC was John Martin and the START-3 Project Team Leader was Craig Dodd.

☐

The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

☒

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EMERGENCY RESPONSE REPORT

PROJECT SUMMARY

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1. PROJECT IDENTIFICATION

Date: 13 July 2007

To: John Martin, On-scene Coordinator (OSC)
U.S. Environmental Protection Agency (EPA)
Region 6, Response and Prevention Branch

Through: Linda Carter, Project Officer (PO)
EPA Region 6, Program Management Branch

Through: Robert Beck, VP, P.E., Weston Solutions, Inc. (WESTON®)
EPA Region 6, Superfund Technical Assessment and Response Team (START-3)
Program Manager

From: Craig Dodd, WESTON
EPA Region 6, START-3 Project Team Leader

Subject: Emergency Response: Louisiana Pigment Company
3300 Bayou D'Inde Rd, Calcasieu Parish, Westlake Louisiana
Contract No. EP-W-06-042
TDD No. TO-0001-07-06-03
W.O. No. 20406.012.001.0179.01
NRC No. 840168
FPN N/A
CERCLIS ID N/A
Latitude 30.196801° North
Longitude 96.307238° West

Geographic coordinates at the southern end of the chloride process building at the production facility were determined by START-3 members using the hand-held Global Positioning System (GPS) based on the World Geodetic System – 1984 (WGS-84) with accuracy estimated at less than 50-feet circular probable error.

2. INTRODUCTION

On 27 June 2007, Louisiana Pigment Company notified the National Response Center (NRC No. 840168) at 1545 hours of a titanium tetrachloride release within its production facility located in Westlake, Calcasieu Parish, Louisiana. The NRC notified the EPA Region 6 Response and Prevention Branch (EPA-RPB). At 1600 hours on 27 June 2007 EPA-RPB notified WESTON, the Region 6 START-3 contractor, to perform a Tier 3 response. The release occurred at the

Louisiana Pigment Company, L.P. which is owned by Kronos Inc. and Huntsman/Tioxide who are the potentially responsible parties (PRPs).

3. BACKGROUND

The incident site is located at 3300 Bayou D’Inde Road, in an industrial area located approximately one mile east of State Rd 108, in Westlake, Calcasieu Parish, Louisiana (see Site Location Map, Attachment A and Site Area Map, Attachment B). The process at the facility consists of applying pressure and heat to titanium ore to produce titanium tetrachloride. The titanium tetrachloride is then heated and creates titanium dioxide that is a pigment used in plastics and paint. According to Louisiana Pigment Company representative, Jeff Giles, the titanium tetrachloride release began at 1510 hours when a pump on the second floor of the Chloride Process Building failed and released titanium tetrachloride to the atmosphere. Titanium tetrachloride reacts with air and moisture to immediately produce hydrochloric acid, HCl, when exposed to open air. Two employees working near the release area on the second floor were exposed to the ensuing plume and subsequently exited the building. The two employees were taken to a local hospital suffering both respiratory difficulties and burns to their bodies. One employee was released from the hospital and the other employee remained in the hospital for further treatment. Louisiana Pigment issued a “shelter in place” alarm to their employees and sounded a siren to warn nearby residences. Louisiana Pigment Company then called adjacent industrial facilities and asked that employees “shelter in place” and not drive on Bayou D’Inde Road. At the time of the release, winds were from the south/southeast to the north/northwest at 3 to 7 miles per hour (mph) (See Attachment I). This wind direction caused the plume from the building to drift across Bayou D’Inde Road.

4. ACTIONS TAKEN

On 27 June 2007, EPA-RPB requested that START-3 mobilize to the Louisiana Pigment Company facility in Westlake, Louisiana to gather information regarding the release; conduct air monitoring; provide written and photographic documentation of response activities; and gather information on the “shelter in place” situation. Upon arrival to the incident area at 2045 hours, START-3 team members Craig Dodd and Joel Shaffer were briefed by Louisiana Pigment

Company representatives, Dr. Timothy Hall, Plant Manager and Mr. Jeff Giles, Operations Manager. Mr. Giles informed START-3 that the pump had failed due to a crack in its outer casing. Mr. Giles informed START-3 that Louisiana Pigment Company employees had completed washing down the interior of the building using high-pressure water and that START-3 could enter the building and observe the failed pump. At 2145, START-3 entered the Chloride Process Building in Level D Personal Protective Equipment (PPE) with Mr. Giles and was able to photograph the pump and the second floor area. At 2200 hours, START-3 collected air samples at three locations on the second floor (See Attachment C). Air was monitored for HCl with a Draeger CMS unit and a 1-25 parts per million (ppm) HCl chip. Results at all three locations were <1 ppm HCl. Air was also monitored with a Multi-Rae unit for carbon monoxide (CO), hydrogen sulfide (H₂S), volatile organic compounds (VOC), lower explosive limit (LEL), and oxygen (O₂). The Multi-Rae detected none of these constituents at the three locations monitored. At 2210 hours, Mr. Giles offered to escort START-3 to perimeter sampling locations.

START-3 conducted perimeter air monitoring at four downwind locations outside of the Louisiana Pigment facility. START-3 utilized a Draeger Handheld Bellows Pump with 1-25 ppm HCl tubes to monitor for HCl and detected results at all four locations of <1 ppm. A Multi-Rae was used to detect the presence of VOCs, CO, LEL, O₂, and H₂S. VOCs were detected from 0.1-0.3 ppm (See Attachment H); however, no other contaminants were detected. The air monitoring locations are illustrated in the Perimeter Monitoring Locations Map, Attachment D. START-3 air monitoring results are presented in Attachment H. Photo documentation of the facility, which was limited due to nighttime conditions, can be found in Attachment E. At 2300 hours on 27 June 2007, START-3 reported to EPA OSC Martin and updated him with the air sampling results, START-3 response activities, and current site conditions. EPA OSC Martin released START-3 upon completion of the air monitoring activities. START-3 departed from the site at approximately 2325 hours on 27 June 2007.

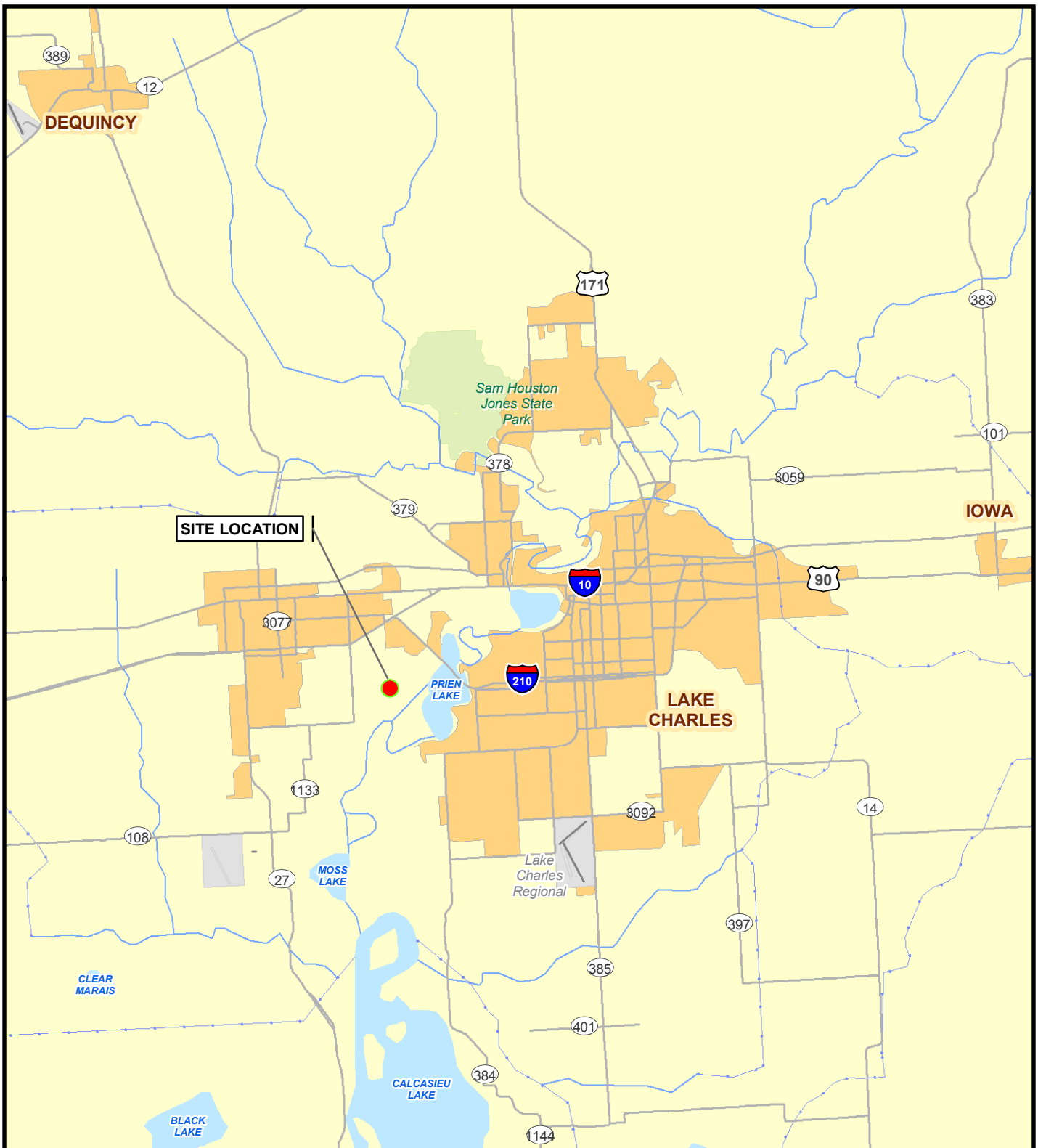
On 10 July 2007, the PRPs reported that the failed pump inside the Chloride Process Building at the Louisiana Pigment Company, Westlake, Louisiana facility had released 5,557 pounds (lbs) of titanium tetrachloride.

This final report was prepared as part of the requirements of the TDD and serves as documentation of work completed to date.

5. LIST OF ATTACHMENTS

- A. Site Location Map
- B. Site Area Map
- C. Air Monitoring Locations
- D. Perimeter Air Monitoring Locations Map
- E. Digital Photographs
- F. Copy of POLREP
- G. Copy of START-3 Logbook
- H. Air Monitoring Results
- I. NCDC Lake Charles Climate Report
- J. Copy of NRC Report No. 840168
- K. Copy of TDD No. TO-0001-07-06-03

ATTACHMENT A
SITE LOCATION MAP



0 4 8
SCALE IN MILES

LEGEND

 SITE LOCATION



USEPA REGION 6 START-3

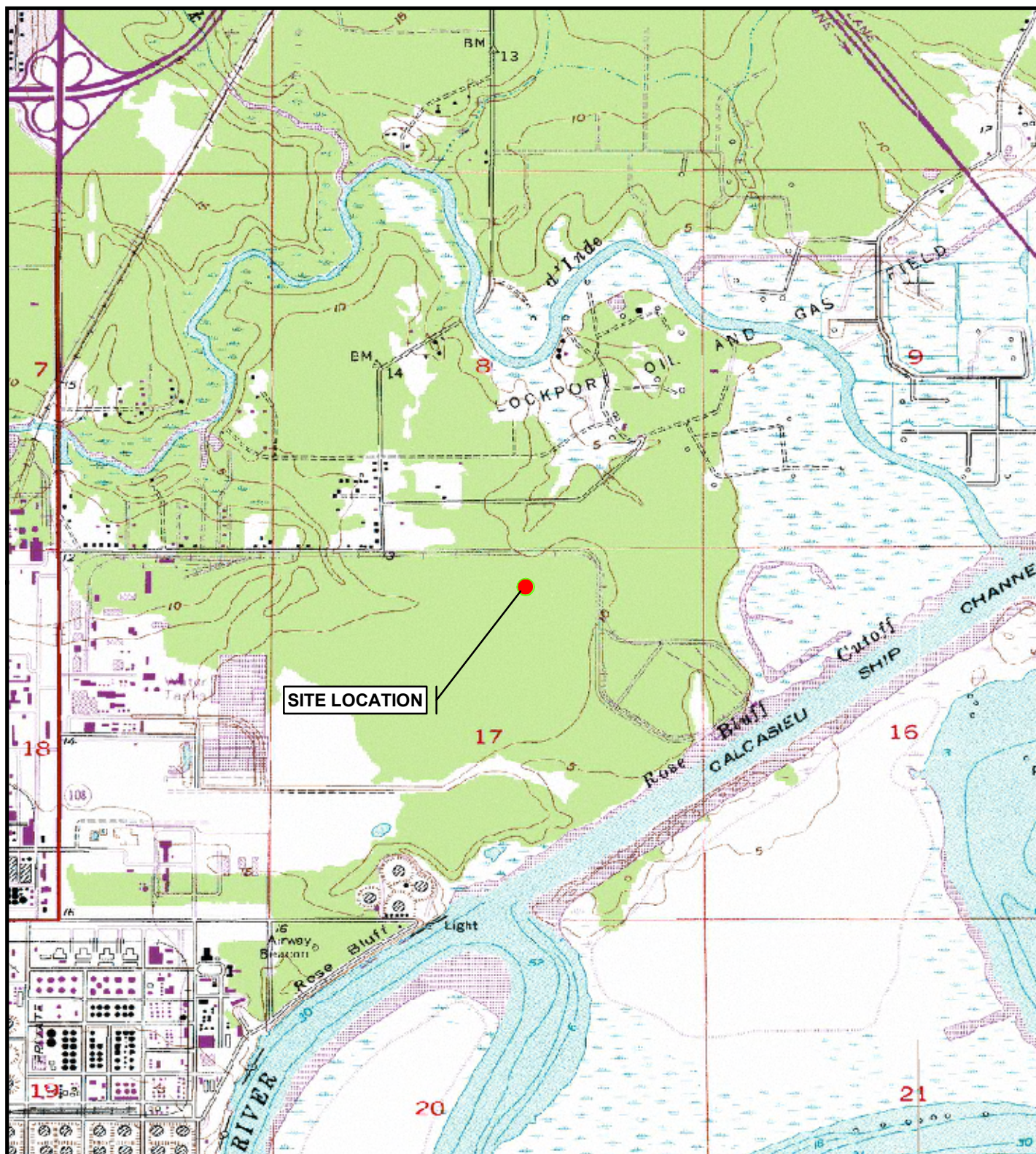
ATTACHMENT A
SITE LOCATION MAP
LOUISIANA PIGMENT COMPANY, L.P.
3300 BAYOU D'INDE ROAD
WESTLAKE
CALCASIEU PARISH, LOUISIANA

NRC: 840168
TDD: TO-0001-07-06-03
CONTRACT NUMBER: EP-W-06-042
SOURCE: ESRI STREETMAPS VERSION 9.2

DATE	PROJECT NO	SCALE
JUL. 2007	20406.012.001.0179.01	AS SHOWN

ATTACHMENT B

SITE AREA MAP



0 2,000 4,000
SCALE IN FEET

LEGEND

● SITE LOCATION



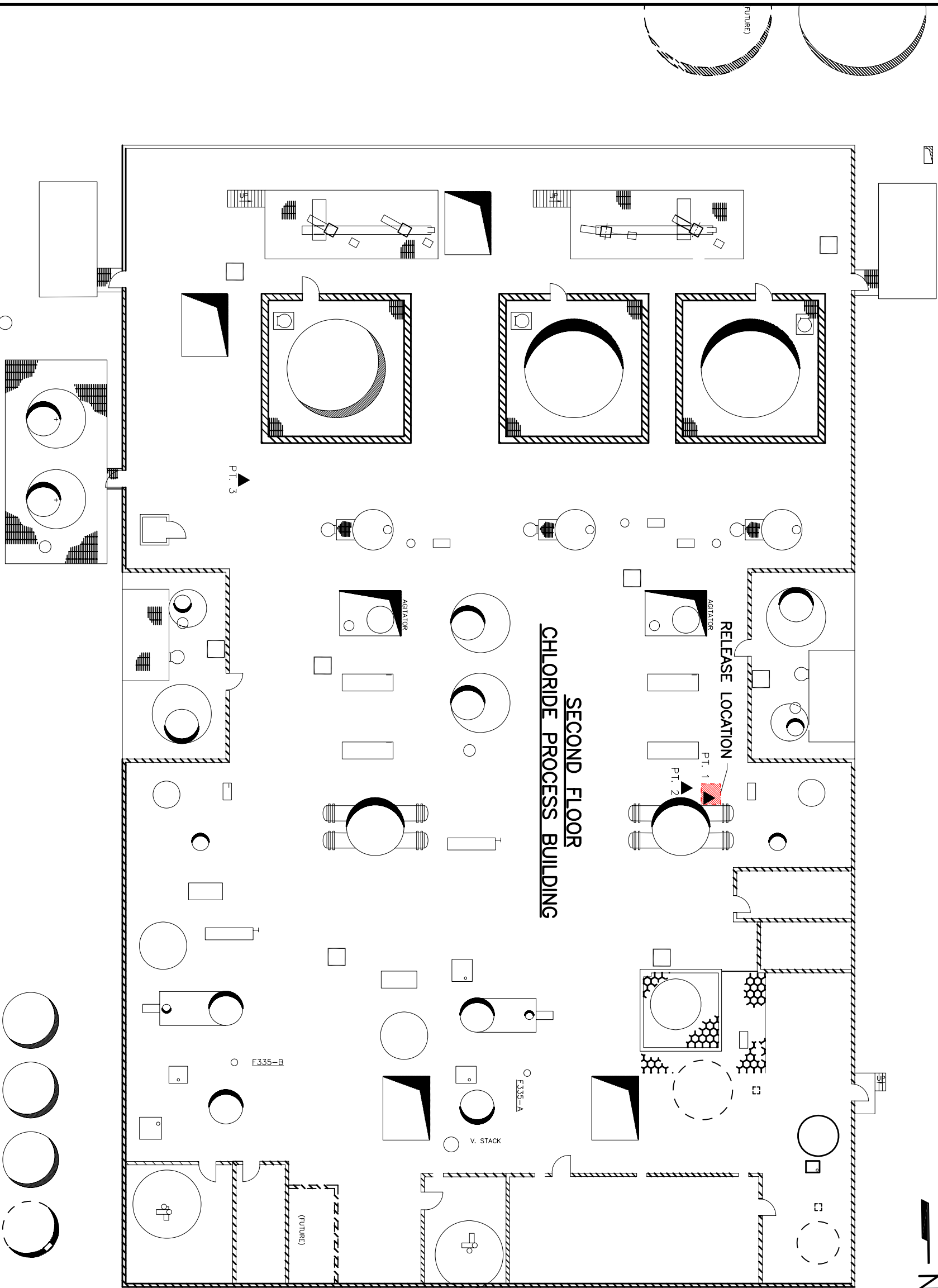
USEPA REGION 6 START-3



ATTACHMENT B
SITE AREA MAP
LOUISIANA PIGMENT COMPANY, L.P.
3300 BAYOU D'INDE ROAD
WESTLAKE
CALCASIEU PARISH, LOUISIANA

NRC: 840168
TDD: TO-0001-07-06-03
CONTRACT NUMBER: EP-W-06-042
SOURCE: USDA/NRCS

DATE JUL. 2007	PROJECT NO 20406.012.001.0179.01	SCALE AS SHOWN
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ATTACHMENT C
AIR MONITORING LOCATIONS



- LEGEND:**
-  AIR MONITORING LOCATION
 -  RELEASE LOCATION



**US EPA REGION 6
START-3**

**ATTACHMENT C
AIR MONITORING LOCATIONS**

LOUISIANA PIGMENT COMPANY, L.P.
3300 BAYOU D'INDE ROAD
WESTLAKE, CALCASIEU PARISH, LOUISIANA

DATE:	W.O. #	SCALE:
JUL 07	20406.012.001.0179.01	NOT TO SCALE

SOURCE: BASEMAP PROVIDED BY LOUISIANA PIGMENT CO., WESTLAKE, LOUISIANA.
NRC: 840168
TDD No.: TO-0001-07-06-03

ATTACHMENT D

PERIMETER AIR MONITORING LOCATIONS MAP



0 300 600
SCALE IN FEET

LEGEND

- PERIMETER AIR MONITORING LOCATIONS
- CHLORIDE PROCESS BUILDING

NRC: 840168
TDD: TO-0001-07-06-03
CONTRACT NUMBER: EP-W-06-042
SOURCE: USDA/NRCS



USEPA REGION 6 START-3

ATTACHMENT D
PERIMETER AIR MONITORING MAP
LOUISIANA PIGMENT COMPANY, L.P.
3300 BAYOU D'INDE ROAD
WESTLAKE
CALCASIEU PARISH, LOUISIANA

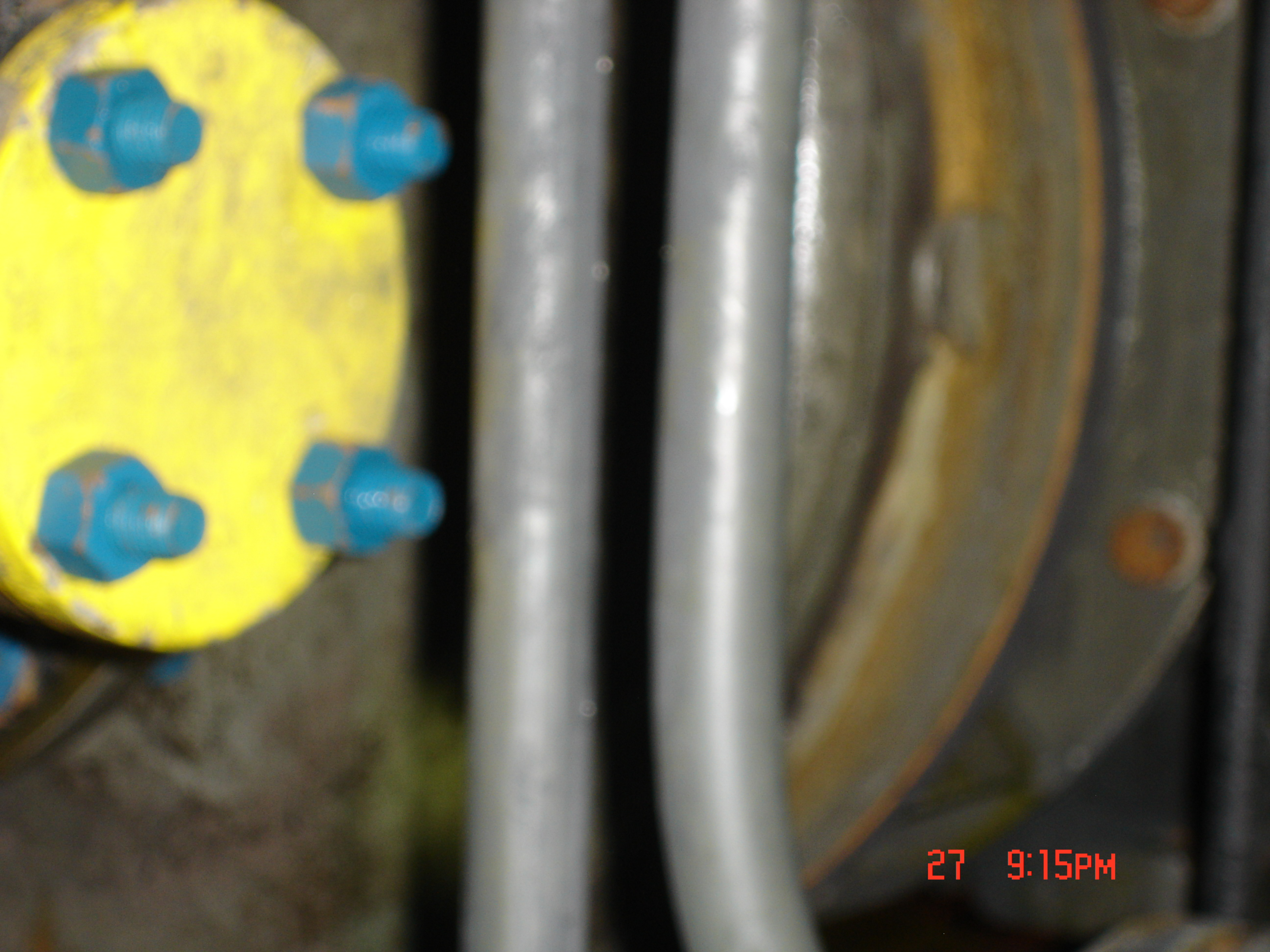
DATE	PROJECT NO	SCALE
JUL. 2007	20406.012.001.0179.01	AS SHOWN

*Louisiana
Pigment* **LOUISIANA
PIGMENT**

27 10:53PM



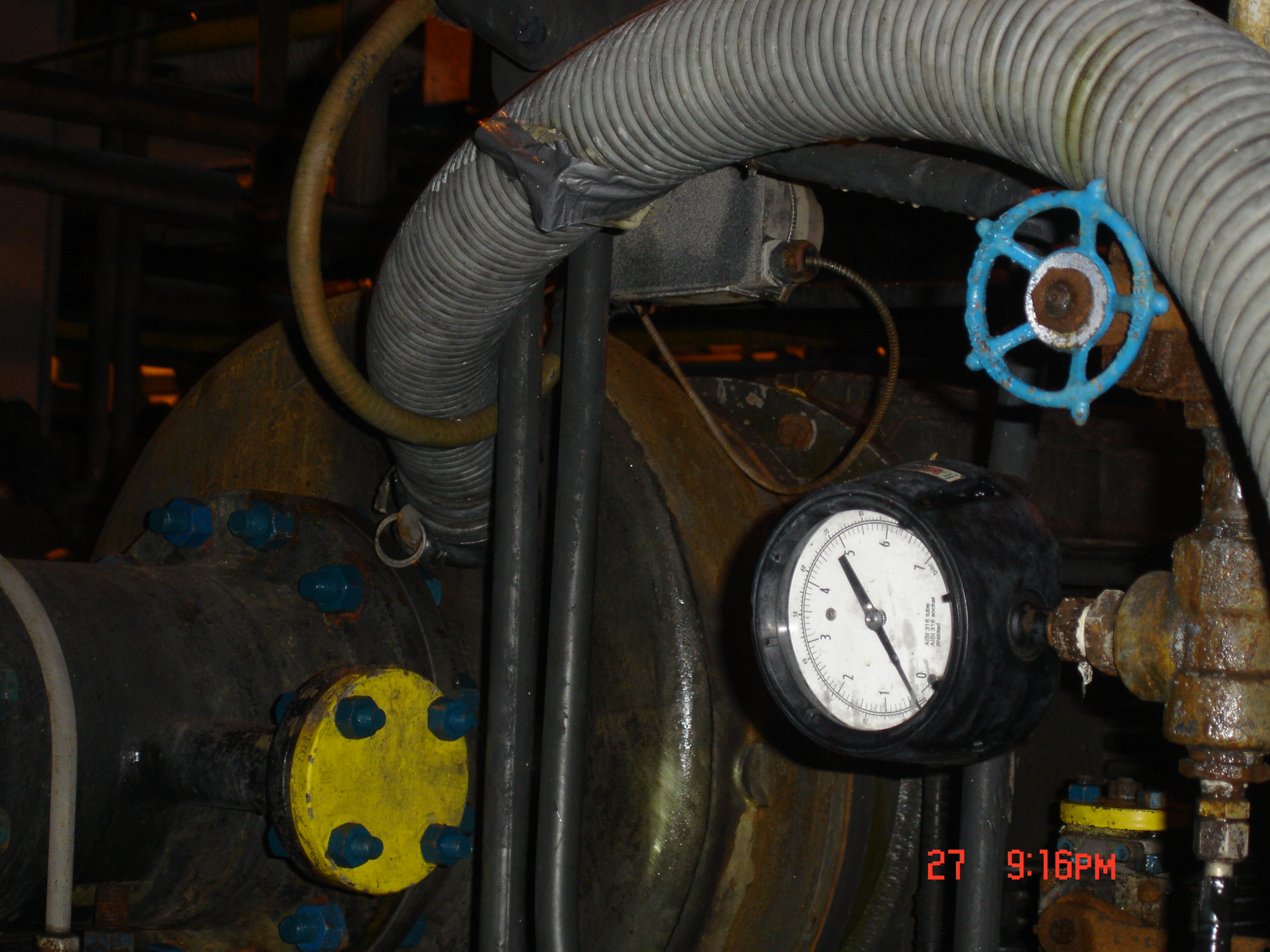
27 9:01PM



27 9:15PM



27 9:16PM



27 9:16PM

H779A-1

5-TONS.

DANGER
STARTS
AUTOMATICALLY

P170A1

27 9:17PM



27 9:18PM



27 9:47PM



27 9:47PM

ATTACHMENT F
COPY OF POLREP

United States Environmental Protection Agency
Region VI
POLLUTION REPORT

Date: Thursday, June 28, 2007
From: Mark Hayes, Environmental Engineer, OSC

Subject: First and Final POLREP
Louisiana Pigment Company
3101 Bayou Dinde Pass, Westlake, LA
Latitude: 30.196801
Longitude: -93.307238

POLREP No.:	1	Site #:	
Reporting Period:	6/27/2007	D.O. #:	
Start Date:	6/27/2007	Response Authority:	CERCLA
Mob Date:	6/27/2007	Response Type:	Emergency
Completion Date:		NPL Status:	
CERCLIS ID #:		Incident Category:	Removal Assessment
RCRIS ID #:		Contract #	

Site Description

On June 27, 2007, Louisiana Pigment reported a release of Titanium Tetrachloride from their Pigment production facility at 3101 Bayou Dinde Pass, Westlake La, 70669.

The National Response Center was notified at about 1550 hrs that a release of Titanium Tetrachloride had occurred and a shelter in place had been issued. Louisiana Pigment produces Titanium Dioxide a paint pigment from Titanium ore which produces the Titanium Tetrachloride in the pigment process. At about 1510 hrs a pump failed on the second floor of the Titanium Tetrachloride facility and directly exposed two employee's to the plume of Titanium Tetrachloride. Being an air reactive the plume produced unknown quantities of Hydrochloric Acid and sent the two employee's to a local hospital with inhalation problems and exterior burns to their bodies. One of the employee's was treated and released the other was in more serious condition and was being held in the hospital for treatment.

Current Activities

On June 27, 2007 at 1600 hrs, the EPA dispatched EPA Superfund Technical Assessment and Response Team (START) to the scene to access the situation for the EPA, assist in perimeter air monitoring and provide support for responders, such as the Louisiana Department of Environmental Quality. START-3 arrived on scene at 2050 hrs and made contact with Mike Boudoin who put us in contact with Dr Timothy Hall, the site Plant Manager and Jeff Giles the Plant Operations Manager and (PRP). START was informed by Mr. Giles that the scene had been secured, cleanup was just about finished and that the LDEQ representative had gone home. During the event a shelter in place was issued and a siren sounded to warn local residents, calls were made to adjacent facilities, the City of Westlake Water Treatment Facility and Conoco Coke Plant to request their employee's shelter in place and keep traffic off of Bayou Dinde Pass road due to exposure to the down wind plume of Titanium Tetrachloride. At the time the winds were from the SSE at 3-7 mph. The pump was shut down, the plume dissipated and crews began cleanup. EPA OSC John Martin tasked START-3 R1 Craig Dodd and R2 Joel Shaffer to collect air samples for HCL and confirm that the shelter in place had been lifted. It was determined that the shelter in place had been lifted several hours prior to the arrival of START-3. The START-3 then

collected 3 floor samples, 4 perimeter samples and a background sample near Interstate-10 several miles to the NW of the plant site. The HCL samples all read <1 ppm HCL. In addition a multi rae was used to collect (VOC) readings also reading <1 ppm. At 2300 hrs START-3 contacted OSC Martin and informed him of the sample results. OSC Martin then released START-3 to return to Houston.

Planned Removal Actions

None

Next Steps

Prepare
report.

Key Issues

Determine residual levels of hydrochloric acid, determine extent of injuries and confirm shelter in place had been lifted.

www.epaosc.net/LAPigmentCo

ATTACHMENT G
COPY OF START-3 LOGBOOK

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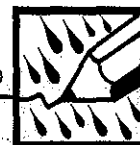
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ALL-WEATHER WRITING PAPER



HORIZONTAL LINE

All-Weather Notebook
No. 391

Louisiana Pigment
6-27-07 — 7-10-07

4 5/8" x 7" - 48 Numbered Pages

Project _____

PAGE	REFERENCE	DATE
	OSL - John Martin 214 - 789 - 1994	
	R1 Craig Dold 832 3477 3822	
	R2 Joel Shaffer	

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

6-27-07 Louisiana Pigment Craig Dodd
 1600 Receive page from
 EPA dispatcher for
 START-3 response to
 Westlake La

1604 Contact Mark Hayes
 EPA Dispatch - informs
 me there has been
 a release of Titanium
 Tetrachloride at Louisiana
 Pigment in Westlake, La.
 - exit sulfur exit -
 NRC # 316116

OSC - John Martin
 Contact @ 214-789-1994

1610 Call Joel Shaffer
 R2 on call

- Ask Joel to meet me
 at the warehouse

Note: Tom Walzer obtains
 MSDS data for titanium
 gives to Joel S.

Note: Joel puts together
 a map to site and
 a hospital route
 for the MSDS

6-27-07 Louisiana Pigment Craig Dodd³
 1705 R1 Craig Dodd arrives at
 the warehouse

1725 R1 Craig Dodd and R2
 Joel Shaffer exit warehouse
 enroute to Westlake La

1730 Speak w/OSC John
 Martin (let him know
 we are enroute to
 La Pigment). The OSC
 asks that we collect
 air samples - I inform
 him we will be sampling
 for Hydrochloric Acid

The reaction product when
 Titanium Tetrachloride
 reacts w/air - he agrees

The OSC also asks that
 we inquire in the
 "shelter in place" issued
 by La Pigment - its status

1620 stop for ice for
 cooler

2049 arrive at La Pigment
 and contact Mike Boudoin
 a supervisor waiting for

6-27-07 La Pigment Craig Dodd
 LS. He informs us the
 event had been controlled
 earlier and crew were
 almost finished cleanup
 ops

210 START-3 then meet
 Dr. Timothy Hall - Plant
 Manager for La Pigment
 Jeff Giles - Operations
 Manager (PRP) (337) 882 (7118)
 John Hammond - Technical
 Manager
 Kevin Le Doux - Plant
 Engineering Specialist
 Mr Giles inform RI Craig
 Dodd that there were
 2 operators injured by
 the release - due to
 their proximity to
 the failed pump -
 When the Titanium Tetra
 chloride escaped, being
 an air reactive it formed
 HCL. The two operators
 experienced respiration

6-27-07. La Pigment Craig Dodd
 problems and burns to their
 skin. One was released
 from the hospital will
 be held for further
 treatment.

Notes: 210 Contact John Martin
 and inform him of status
 of shelter in place and
 that there are 2 injured.
 The release was caused by
 a failed pump on the
 2nd floor - at the
 Titanium Tetrachloride production
 facility. Mr Giles goes
 on text say that a shelter
 in place was issued by
 La Pigment and a siren
 sounded to alert
 nearby residents and
 site employees of a
 shelter in place order.
 La Pigment also contacts
 adjacent facilities to
 request they shelter in
 place and not drive

6-27-07 LaPiment Craig Dodd
 021 Bayou Linde Pass road
 north side of plant.
 The plume was being
 pushed by winds from
 the south/southwest @
 37 mph. The north bound
 plume was passing by
 the Bayou Linde Road.
 The pump was stopped
 as the plume cleared
 out. Crews were able
 to begin clean up and
 a all clear later
 sounded.

Note: R1 informed to pump
 failed @ about 1510 hrs
 2145 START-3 enters the
 Titanium Tetrachloride
 facility w/ Jeff Giles
 and other staff members
 to observe condition
 of the building and
 failed pump. At request
 of Mr Giles START-3
 wears Tyvek and Gloves

6-27-07 LaPiment Craig Dodd⁷

the probe was from
 potential drips of HCL
 from the ceiling

2200 R2 Joel Shaffer
 collects air samples
 w/ the CMS unit and
 the multi vae unit
 All - Pt 1 - Pt 2 - Pt 3

CMS - 2nd floor < 1 ppm
 CMS - " " < 1 ppm
 CMS - " " < 1 ppm

CO - 0.0

H₂S - 0.0

LEL - 0.0

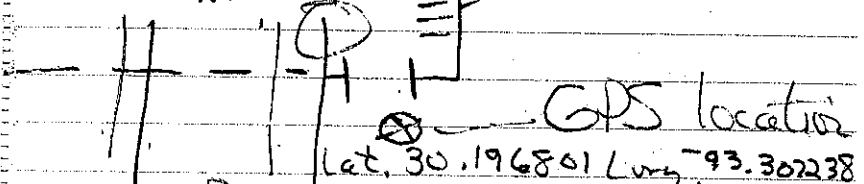
O₂ - 20.9%

VOC - 0.1 ppm

a GPS reading was taken
 at the southeast
 entrance of the building.
 Pictures are taken by
 Joel Shaffer

GPS reading at front
 of Chloride building
 - 30.196801
 - 93.307238

6-27-07 La Renta Sump. Craig Dock
North Stairs



2205 Discuss LDEQ w/
Blenda Kerns - staff member
Tom Cumming LDEQ rep
was on site earlier and
left when this were cleaned
up

2210 Speak w/ Mr Giles
about getting some
perimeter samples.
He recommends samples
be taken outside the
perimeter fence along
the fence due to the
presence of numerous
snakes - START 3 RI a good

Pt-1 sample < 1 ppm VOC 0.1 ppm
all other parameters good

Pt-2 Same

Pt-3 Same

Lat 30.19814 Long -93.307238
196801 307238

6-27-07 La Renta Sump. Craig Dock
P-4 (2234) D-tube < 1 ppm VOC 0.1 ppm

Note: CMS unit not pumping Jorg

Shaffer switches to Draeger tube

HCL 1-25 ppm - unit 20 pumps

P-5 (2240 hrs) D-tube < 1 ppm VOC 0.1 ppm

all other O₂ 20.9% LEL, H₂S, CO 0.0

P-6 Lat 30.19816 Long -93.30327

P-6 (2248 hrs) D-tube < 1 ppm, VOC 0.3

all other O₂ 20.9% LEL, H₂S, CO 0.0 ppm

Lat 30.19812 Long -93.30702

P-7 (2258 hrs) D-tube < 1 ppm - VOC 0.3 ppm

all other O₂ 20.9% H₂S, LEL CO 0.0 ppm

Lat 30.19782 Long -93.31665

P-8 BKG sample (2309 hrs)

D-tube < 1 ppm VOC 0.1 ppm

all other O₂ 20.9% LEL, H₂S, CO N/D

Note: this BKG location is

at Citgo gas station at the

intersection of I-10 and

La 108 South

Lat 30.21337 Long -93.32399

Note @ 2300 hr RI Craig Dock

Contacts OSC Martin of

current sample results

6-27-07 La Pigment (Varyed)
Mr Martin is good w/ readings
and releases START-3 team
to return to Houston
upon finish of samples —
2225 START-3 returns to
Houston —

6-28-07 @ 0210 hrs START-3
arrives @ Wake house —
gear removed from
truck — Note Have problem
putting fuel in truck
will not take all
fuel —
0305 arrive home end
of day —

~~Ray Dadd 6-28-07~~

6-28-07 La Pigment (Ray Dadd)
1410 Note Multi Ray
pump # RF023116
CMS # 095-516294
these units use on
6-27-07 to do Air
Samples @ La Pigment

~~— Ray Dadd 6-28-07~~

7-2-07 La Pigment Craig Dodd
 1435 Speak w/ Jeff Giles
 ask for Pff of Site
 maps and 2nd floor
 chloride building
 He will

- Discuss - injured employee - is in Danton Rouge Hospital was doing well until today - showing signs of Tachycardia - are working on him
- Discuss estimate of titanium tetrachloride lost - Mr. Giles feels that maybe 400 - 5000 lbs. He says true amount will come out in report

~~Call~~

~~Craig Dodd 7-2-07~~

7-10-07 La Pigment Craig Dodd
 0902 Call and speak w/ Tom Cummings w/ LDEG - rep for the La Pigment event - asked Mr. Cummings for final report info on La Pigment - he has not received it and has no inform. on the injured operator from La Pigment
 1420 Speak w/ Jeff Giles about injured employee He reports that the employee died on 7-9-07 of complication (cardiac arrest) from exterior burns from the HCL exposure on 6-27-07 - La Pigment employees very quiet today

also - he confirms 1510 start time of event and only knows event over about 2 1/2 hrs. later - exact time in final report not yet out

Craig Dodd - 7-10-07

ATTACHMENT H
AIR MONITORING RESULTS

**EMERGENCY RESPONSE
FOR
LOUISIANA PIGMENT
START-3 AIR MONITORING RESULTS**

Monitoring Station				
Station No.	Name	Lat.	Long.	Info
P-1	P-1	In Building	In Building	Release, floor area
P-2	P-2	In Building	In Building	Release, at flange
P-3	P-3	In Building	In Building	2nd floor near stair well
P-4	P-4	30.19814	-93.30933	
P-5	P-5	30.19816	-93.30827	
P-6	P-6	30.19812	-93.30702	
P-7	P-7	30.19782	-93.31065	
P-8	P-8	30.21337	-93.32399	Background

Monitoring Equipment						
Equipment	Category	Type	Calibration	Cal. Date	Cal. Time	Info
CSM Draeger		Draeger		N/A	N/A	Hydrochloric Acid Test
Draeger Hand Pump		Draeger		N/A	N/A	903787
Multi Rae	Multi Gas Monitoring	Multi Rae		6/25/2007	1300	RFW23116

Mobile Monitoring Reading									
Station	Equipment	Type	Reading	Lat.	Long.	Monitor	Date	Time	Info
P-1	Multi Rae	CO	0	In Building	In Building	Joel Shaffer	6/27/07	2200	
P-1	Multi Rae	H2S	0	In Building	In Building	Joel Shaffer	6/27/07	2200	
P-1	CSM Draeger	HCL	<1	In Building	In Building	Joel Shaffer	6/27/07	2200	
P-1	Multi Rae	LEL	0	In Building	In Building	Joel Shaffer	6/27/07	2200	
P-1	Multi Rae	Oxygen	20.9	In Building	In Building	Joel Shaffer	6/27/07	2200	
P-1	Multi Rae	VOC	0.1	In Building	In Building	Joel Shaffer	6/27/07	2200	
P-2	Multi Rae	CO	0	In Building	In Building	Joel Shaffer	6/27/07	2203	
P-2	Multi Rae	H2S	0	In Building	In Building	Joel Shaffer	6/27/07	2203	
P-2	CSM Draeger	HCL	<1	In Building	In Building	Joel Shaffer	6/27/07	2203	
P-2	Multi Rae	LEL	0	In Building	In Building	Joel Shaffer	6/27/07	2203	
P-2	Multi Rae	Oxygen	20.9	In Building	In Building	Joel Shaffer	6/27/07	2203	
P-2	Multi Rae	VOC	0.1	In Building	In Building	Joel Shaffer	6/27/07	2203	
P-3	Multi Rae	CO	0	In Building	In Building	Joel Shaffer	6/27/07	2205	
P-3	Multi Rae	H2S	0	In Building	In Building	Joel Shaffer	6/27/07	2205	
P-3	CSM Draeger	HCL	<1	In Building	In Building	Joel Shaffer	6/27/07	2205	
P-3	Multi Rae	LEL	0	In Building	In Building	Joel Shaffer	6/27/07	2205	
P-3	Multi Rae	Oxygen	20.9	In Building	In Building	Joel Shaffer	6/27/07	2205	
P-3	Multi Rae	VOCs	0.1	In Building	In Building	Joel Shaffer	6/27/07	2205	
P-4	Draeger Hand Pump	HCL	<1	30.19814	-93.30933	Joel Shaffer	6/27/07	2234	
P-4	Multi Rae	Oxygen	20.9	30.19814	-93.30933	Joel Shaffer	6/27/07	2234	
P-4	Multi Rae	VOCs	0.1	30.19814	-93.30933	Joel Shaffer	6/27/07	2234	
P-5	Draeger Hand Pump	HCL	<1	30.19816	-93.30827	Joel Shaffer	6/27/07	2240	
P-5	Multi Rae	Oxygen	20.9	30.19816	-93.30827	Joel Shaffer	6/27/07	2240	
P-5	Multi Rae	VOCs	0.1	30.19816	-93.30827	Joel Shaffer	6/27/07	2240	
P-6	Draeger Hand Pump	HCL	<1	30.19812	-93.30702	Joel Shaffer	6/27/07	2248	
P-6	Multi Rae	Oxygen	20.9	30.19812	-93.30702	Joel Shaffer	6/27/07	2248	
P-6	Multi Rae	VOCs	0.3	30.19812	-93.30702	Joel Shaffer	6/27/07	2248	
P-7	Draeger Hand Pump	HCL	<1	30.19782	-93.31065	Joel Shaffer	6/27/07	2258	
P-7	Multi Rae	Oxygen	20.9	30.19782	-93.31065	Joel Shaffer	6/27/07	2258	
P-7	Multi Rae	VOCs	0.3	30.19782	-93.31065	Joel Shaffer	6/27/07	2258	
P-7	Draeger Hand Pump	HCL	<1	30.21337	-93.32399	Joel Shaffer	6/27/07	2258	
P-7	Multi Rae	Oxygen	20.9	30.21337	-93.32399	Joel Shaffer	6/27/07	2258	
P-7	Multi Rae	VOCs	0.3	30.21337	-93.32399	Joel Shaffer	6/27/07	2258	

ATTACHMENT I

NCDC LAKE CHARLES CLIMATE REPORT

Please note this information is preliminary and subject to revision. Official and certified climatic data can be accessed at the National Climatic Data Center (NCDC) (<http://www.ncdc.noaa.gov/oa/ncdc.html>).

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CDUS44 KLCH 281036
CLILCH

CLIMATE REPORT
NATIONAL WEATHER SERVICE LAKE CHARLES, LA
535 AM CDT THU JUN 28 2007

.....

...THE LAKE CHARLES CLIMATE SUMMARY FOR JUNE 27 2007...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1893 TO 2007

WEATHER ITEM	OBSERVED VALUE	TIME (LST)	RECORD VALUE	YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
.....							
TEMPERATURE (F)							
YESTERDAY							
MAXIMUM	90	238 PM	106	1930	90	0	92
MINIMUM	76	549 AM	58	1974	74	2	71
AVERAGE	83				82	1	82
PRECIPITATION (IN)							
YESTERDAY	0.00		6.92	1989	0.19	-0.19	0.00
MONTH TO DATE	4.39				5.50	-1.11	8.03
SINCE JUN 1	4.39				5.50	-1.11	8.03
SINCE JAN 1	32.53				27.54	4.99	18.11
SNOWFALL (IN)							
YESTERDAY	0.0		0.0	MM	0.0	0.0	0.0
MONTH TO DATE	0.0				0.0	0.0	0.0
SINCE JUN 1	0.0				0.0	0.0	0.0
SINCE JUL 1	0.0				0.3	-0.3	0.0
SNOW DEPTH	0						
DEGREE DAYS							
HEATING							
YESTERDAY	0				0	0	0

MONTH TO DATE	0	0	0
SINCE JUN 1	0	0	0
SINCE JUL 1	1562	1546	16 1251

COOLING

YESTERDAY	18	17	1	17
MONTH TO DATE	432	416	16	451
SINCE JUN 1	432	416	16	451
SINCE JAN 1	917	925	-8	1117

.....

WIND (MPH)

HIGHEST WIND SPEED	14	HIGHEST WIND DIRECTION	SE (150)
HIGHEST GUST SPEED	16	HIGHEST GUST DIRECTION	SE (150)
AVERAGE WIND SPEED	5.9		

SKY COVER

POSSIBLE SUNSHINE 781
AVERAGE SKY COVER 0.1

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
FOG

RELATIVE HUMIDITY (PERCENT)

HIGHEST	94	300 AM
LOWEST	50	200 PM
AVERAGE	72	

.....

THE LAKE CHARLES CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	90	102	1914
MINIMUM TEMPERATURE (F)	74	62	1974

SUNRISE AND SUNSET

JUNE 28 2007.....	SUNRISE	614 AM CDT	SUNSET	818 PM CDT
JUNE 29 2007.....	SUNRISE	614 AM CDT	SUNSET	818 PM CDT

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.

The U.S. Naval Observatory takes observations and generates sunrise and sunset data. The NWS is not the custodian of records for such records and therefore, cannot certify to such facts, or authenticate such data. For information regarding sunrise and sunset tables and to obtain certified records, contact: U.S. Naval Observatory, ATTN: Code AA, 3450 Massachusetts Ave., N.W., Washington, D.C. 20392-5420; <http://aa.usno.navy.mil/data/>.

ATTACHMENT J

COPY OF NRC REPORT NO. 840168

NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 840168

INCIDENT DESCRIPTION

*Report taken at 16:27 on 27-JUN-07

Incident Type: FIXED

Incident Cause: UNKNOWN

Affected Area:

The incident occurred on 27-JUN-07 at 15:11 local time.

Affected Medium: AIR

SUSPECTED RESPONSIBLE PARTY

Organization: LOUISIANA PIGMENT COMPANY
WESTLAKE, LA 70669

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

3300 BAYOU D'INDE ROAD County: CALCASIEU
City: WESTLAKE State: LA Zip: 70669

RELEASED MATERIAL(S)

CHRIS Code: TTT Official Material Name: TITANIUM TETRACHLORIDE

Also Known As:

Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER IS REPORTING THAT TITANIUM TETRACHLORIDE IS CURRENTLY RELEASING TO THE AIR FROM A PUMP. THE CAUSE OF THE INCIDENT IS UNKNOWN. THE PLANT HAS BEEN EVACUATED AND THEY ARE TRYING TO GET A SHELTER IN PLACE FOR THE SURROUNDING AREA. THE CALLER DID NOT KNOW THE SIZE OF THE SHELTER IN PLACE AND STATED THAT THEY ARE NOT LOCATED IN A HEAVILY POPULATED AREA.

INCIDENT DETAILS

Package: N/A

Building ID:

Type of Fixed Object: MANUFACTURING FACILITY

Power Generating Facility: UNKNOWN

Generating Capacity:

Type of Fuel:

NPDES:

NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN
 INJURIES: UNKN Hospitalized: Empl/Crew: Passenger:
 FATALITIES: NO Empl/Crew: Passenger: Occupant:
 EVACUATIONS: YES Who Evacuated: EMPLOYEES Radius/Area:
 Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		
Road:	N		M
Waterway:	N		Ar
Track:	N		

Passengers Transferred: NO
 Environmental Impact: UNKNOWN
 Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

TRYING TO SHUT DOWN AND ISOLATE THE UNIT
 Release Secured: UNKNOWN
 Release Rate:
 Estimated Release Duration:

WEATHER

Weather: CLEAR, 92°F Wind speed: 11 MPH Wind direction: SW

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE
 State/Local: STATE POLICE, SERC, LEPC, DEQ
 State/Local On Scene:
 State Agency Number: SP 07-03522

NOTIFICATIONS BY NRC

CHEM SAFETY AND HAZARD INVEST BOARD (MAIN OFFICE)
 27-JUN-07 16:37
 DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
 27-JUN-07 16:37
 U.S. EPA VI (MAIN OFFICE)
 27-JUN-07 16:39
 FLD INTEL SUPPORT TEAM NEW ORLEANS (SUPERVISOR, FIST NEW ORLEANS)
 27-JUN-07 16:37
 FLD INTEL SUPPORT TEAM PORT ARTHUR (FIST COMMAND CENTER)
 27-JUN-07 16:37
 JFO-LA (COMMAND CENTER)
 27-JUN-07 16:37
 LA DEPT OF ENV QUAL (MAIN OFFICE)
 27-JUN-07 16:37
 LA OFFICE OF EMERGENCY PREPAREDNESS (MAIN OFFICE)

27-JUN-07 16:37
LA OFFICE OF GOV ATTN ROLAND GUIDRY (MAIN OFFICE)
27-JUN-07 16:37
LA OFFICE OF PUBLIC HEALTH (MAIN OFFICE)
27-JUN-07 16:37
MSU LAKE CHARLES (MAIN OFFICE)
27-JUN-07 16:37
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
27-JUN-07 16:37
NOAA RPTS FOR LA (MAIN OFFICE)
27-JUN-07 16:37
NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)
27-JUN-07 16:41
NTSB PIPELINE (MAIN OFFICE)
27-JUN-07 16:37
SECTOR HOUSTON-GALVESTON (COMMAND CENTER)
27-JUN-07 16:41
LA STATE POLICE (MAIN OFFICE)
27-JUN-07 16:37
TCEQ (MAIN OFFICE)
27-JUN-07 16:37

ADDITIONAL INFORMATION

NONE

*** END INCIDENT REPORT # 840168 ***

ATTACHMENT K

COPY OF TDD NO. TO-0001-07-06-03



U.S. EPA
Washington, DC 20460

START3
Technical Direction Document

Response Activities- REMOVAL
Funds (0001)
Weston Solutions, Inc.

TDD #: TO-0001-07-06-03
Contract: EP-W-06-042

! = required field

TDD Name: Louisiana Pigment Company		! Period: Base Period	
! Purpose: Work Assignment Initiation		Verbal Date: 06/27/2007	
! Priority: High		! Start Date: 06/27/2007	
Overtime: Yes		! Completion Date: 08/15/2007	
! Funding Category: Removal		Invoice Unit:	
! Project/Site Name: Lousiana Pigment Company		WorkArea: RESPONSE ACTIVITIES	
Project Address: 3300 Bayou D'Inde Rd		Activity: Emergency Response	
County: Calcasieu		Work Area Code:	
City, State: Westlake, LA		Activity Code: RV	
Zip: 70669		EMERGENCY CODE: <input type="checkbox"/> KAT <input type="checkbox"/> RIT	
! SSID: A6A3		FPN:	
CERCLIS: NRC# 840168		Performance Based: No	
Operable Unit:			
Authorized TDD Ceiling:		Cost/Fee	LOE (Hours)
Previous Action(s):		\$0.00	0.0
This Action:		\$8,000.00	0.0
New Total:		\$8,000.00	0.0

Specific Elements - Collect facts regarding the discharge or release to include its source and cause, - Identify potentially responsible parties, - Analyze the nature amount and location of discharged or released materials, - Analyze the probable direction and time of travel of discharged or released materials, - Analyze whether the discharge is a worst case discharge in accordance with Sec. 300.324 of the NCP, - Identify the pathways to human and environmental exposure, - Analyze the potential impact on human health welfare and safety and the environment posed by the release of hazardous substances contaminants or pollutants and discharge of oil, - Provide analysis of discharges or releases posing a substantial threat to the public health or welfare of the United States, - Analyze the potential impact on natural resources and property, - Document costs incurred by the contractor for the response actions, - Collect or review data such as site management practices information from generators photographs historical photographic analyses literature searches and personal interviews, - Identify active or historical facility processes or operations that may contribute to the release or threat of release of hazardous substances pollutants contaminants or discharge of oil, - Prepare a sampling plan which describes the number type and location of samples and the type of analyses (for example sampling and analysis plans for collection of multi-media environmental samples chemical product or waste oil or other materials), - Observe and document federal state and private actions taken to conduct a response action, - Collect analyze and validate data in accordance with EPA standard methods for sample analysis, - Develop site specific Health and Safety Plans (HSPs), - Identify local and elected officials

Description of Work:

NRC # 840168. Tier 3 response. Mobilize immediately to the site and conduct air monitoring, site assesemt, coordinate with state and local officials, maintain log book, photo document, and draft polrep.

Accounting and Appropriation Information

SFO: 22

Line	DCN	IFMS	Budget/ FY	Appropriati on Code	Budget Org Code	Program Element	Object Class	Site Project	Cost Org Code	Amount
1	RVC010	AG7	07	T	6A00E	302DC6C	2505	A6A3RV00	C001	\$8,000.00

Funding Summary:		Funding
	Previous:	\$0.00
	This Action:	\$8,000.00
	Total:	\$8,000.00

Funding Category

Removal

Section

- Signed by Mark Hayes/R6/USEPA/US on 06/27/2007 05:08:44 PM, according to Cheng Wei Feng/start6

Comments: Tier

: Mark Hayes

Date: 06/27/2007

Project Officer Section - Signed by Linda Carter/R6/USEPA/US on 06/28/2007 11:20:47 AM, according to Cheng Wei Feng

Project Officer: Linda Carter

Date: 06/28/2007

Contracting Officer Section - Signed by Tobin Osterberg/R6/USEPA/US on 06/28/2007 03:39:49 PM, according to Cheng Wei Feng

Contracting Officer: Tobin Osterberg

Date: 06/28/2007

Contractor Section

Contractor Contact:

Date: